

# Stephen M Ogle

## List of Publications by Year in descending order

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88  
papers

9,392  
citations

101543

36  
h-index

56724

83  
g-index

93  
all docs

93  
docs citations

93  
times ranked

9710  
citing authors

#	ARTICLE	IF	CITATIONS
1	Agricultural systems. , 2022, , 375-402.		0
2	Modeling ammonia volatilization from urea application to agricultural soils in the DayCent model. Nutrient Cycling in Agroecosystems, 2021, 119, 259-273.	2.2	8
3	Land/Atmosphere/Water Interactions. , 2021, , 245-278.		0
4	Quantifying Nitrous Oxide Emissions in the U.S. Midwest: A Topâ€Down Study Using High Resolution Airborne Inâ€Situ Observations. Geophysical Research Letters, 2021, 48, e2020GL091266.	4.0	8
5	Land-based emissions. Nature Climate Change, 2021, 11, 382-383.	18.8	8
6	Simulating measurable ecosystem carbon and nitrogen dynamics with the mechanistically defined MEMS 2.0 model. Biogeosciences, 2021, 18, 3147-3171.	3.3	32
7	Deforestation and land use change mediate soil carbon changes in the eastern Brazilian Amazon. Regional Environmental Change, 2021, 21, 1.	2.9	6
8	Improved accuracy and reduced uncertainty in greenhouse gas inventories by refining the IPCC emission factor for direct N<sub>2</sub>O emissions from nitrogen inputs to managed soils. Global Change Biology, 2021, 27, 6536-6550.	9.5	24
9	Modeling nitrous oxide mitigation potential of enhanced efficiency nitrogen fertilizers from agricultural systems. Science of the Total Environment, 2021, 801, 149342.	8.0	10
10	Greenhouse Gas Inventory Model for Biochar Additions to Soil. Environmental Science & Technology, 2021, 55, 14795-14805.	10.0	68
11	Improving the social cost of nitrous oxide. Nature Climate Change, 2021, 11, 1008-1010.	18.8	16
12	From research to policy: optimizing the design of a national monitoring system to mitigate soil nitrous oxide emissions. Current Opinion in Environmental Sustainability, 2020, 47, 28-36.	6.3	20
13	Adaptation in U.S. Corn Belt increases resistance to soil carbon loss with climate change. Scientific Reports, 2020, 10, 13799.	3.3	8
14	Building on Paris: integrating nitrous oxide mitigation into future climate policy. Current Opinion in Environmental Sustainability, 2020, 47, 7-12.	6.3	17
15	DayCent Model Predictions of NPP and Grain Yields for Agricultural Lands in the Contiguous U.S.. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2020JG005750.	3.0	15
16	Bayesian calibration of the DayCent ecosystem model to simulate soil organic carbon dynamics and reduce model uncertainty. Geoderma, 2020, 376, 114529.	5.1	28
17	The importance of management information and soil moisture representation for simulating tillage effects on N&lt;sub&gt;2&lt;/sub&gt;O emissions in LPjml5.0-tillage. Geoscientific Model Development, 2020, 13, 3905-3923.	3.6	5
18	Climate and Soil Characteristics Determine Where No-Till Management Can Store Carbon in Soils and Mitigate Greenhouse Gas Emissions. Scientific Reports, 2019, 9, 11665.	3.3	148

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19	Modelling greenhouse gas emissions and mitigation potentials in fertilized paddy rice fields in Bangladesh. <i>Geoderma</i> , 2019, 341, 206-215.	5.1	26
20	A global, empirical, harmonised dataset of soil organic carbon changes under perennial crops. <i>Scientific Data</i> , 2019, 6, 57.	5.3	13
21	Unifying soil organic matter formation and persistence frameworks: the MEMS model. <i>Biogeosciences</i> , 2019, 16, 1225-1248.	3.3	81
22	Evaluation of four modelling approaches to estimate nitrous oxide emissions in China's cropland. <i>Science of the Total Environment</i> , 2019, 652, 1279-1289.	8.0	27
23	Framework for improved confidence in modeled nitrous oxide estimates for biofuel regulatory standards. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2018, 23, 1281-1301.	2.1	8
24	Networking our science to characterize the state, vulnerabilities, and management opportunities of soil organic matter. <i>Global Change Biology</i> , 2018, 24, e705-e718.	9.5	92
25	Model Based Regional Estimates of Soil Organic Carbon Sequestration and Greenhouse Gas Mitigation Potentials from Rice Croplands in Bangladesh. <i>Land</i> , 2018, 7, 82.	2.9	21
26	Delineating managed land for reporting national greenhouse gas emissions and removals to the United Nations framework convention on climate change. <i>Carbon Balance and Management</i> , 2018, 13, 9.	3.2	37
27	Impact analysis of climate data aggregation at different spatial scales on simulated net primary productivity for croplands. <i>European Journal of Agronomy</i> , 2017, 88, 41-52.	4.1	27
28	Use of inverse modeling to evaluate CENTURY-predictions for soil carbon sequestration in US rain-fed corn production systems. <i>PLoS ONE</i> , 2017, 12, e0172861.	2.5	8
29	Hotspots of gross emissions from the land use sector: patterns, uncertainties, and leading emission sources for the period 2000–2005 in the tropics. <i>Biogeosciences</i> , 2016, 13, 4253-4269.	3.3	29
30	Multi-gas and multi-source comparisons of six land use emission datasets and AFOLU estimates in the Fifth Assessment Report, for the tropics for 2000–2005. <i>Biogeosciences</i> , 2016, 13, 5799-5819.	3.3	8
31	Sampling for Soil Carbon Stock Assessment in Rocky Agricultural Soils. <i>Soil Science Society of America Journal</i> , 2016, 80, 1411-1423.	2.2	15
32	Climate-smart soils. <i>Nature</i> , 2016, 532, 49-57.	27.8	1,320
33	Evaluating land cover influences on model uncertainties—A case study of cropland carbon dynamics in the Mid-Continent Intensive Campaign region. <i>Ecological Modelling</i> , 2016, 337, 176-187.	2.5	7
34	Managing the nitrogen cycle to reduce greenhouse gas emissions from crop production and biofuel expansion. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016, 21, 1197-1212.	2.1	12
35	Monitoring Soil Natural Capital and Ecosystem Services by Using Large-Scale Survey Data. , 2015, , 127-155.		2
36	Developing National Baseline GHG Emissions and Analyzing Mitigation Potentials for Agriculture and Forestry Using an Advanced National GHG Inventory Software System. <i>Advances in Agricultural Systems Modeling</i> , 2015, , 129-148.	0.3	5

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37	Global mitigation potential and costs of reducing agricultural non-CO <sub>2</sub> greenhouse gas emissions through 2030. <i>Journal of Integrative Environmental Sciences</i> , 2015, 12, 87-105.	2.5	61
38	An approach for verifying biogenic greenhouse gas emissions inventories with atmospheric CO <sub>2</sub> concentration data. <i>Environmental Research Letters</i> , 2015, 10, 034012.	5.2	27
39	Evaluation of the CENTURY Model Using Long-Term Fertilization Trials under Corn-Wheat Cropping Systems in the Typical Croplands of China. <i>PLoS ONE</i> , 2014, 9, e95142.	2.5	22
40	Simulating greenhouse gas mitigation potentials for Chinese Croplands using the DAYCENT ecosystem model. <i>Global Change Biology</i> , 2014, 20, 948-962.	9.5	77
41	Reducing greenhouse gas emissions and adapting agricultural management for climate change in developing countries: providing the basis for action. <i>Global Change Biology</i> , 2014, 20, 1-6.	9.5	61
42	Comparing cropland net primary production estimates from inventory, a satellite-based model, and a process-based model in the Midwest of the United States. <i>Ecological Modelling</i> , 2014, 277, 1-12.	2.5	40
43	Predicting methanogenesis from rice paddies using the DAYCENT ecosystem model. <i>Ecological Modelling</i> , 2013, 261-262, 19-31.	2.5	27
44	Evaluating atmospheric CO <sub>2</sub> inversions at multiple scales over a highly inventoried agricultural landscape. <i>Global Change Biology</i> , 2013, 19, 1424-1439.	9.5	76
45	A constrained least-squares approach to combine bottom-up and top-down CO <sub>2</sub> flux estimates. <i>Environmental and Ecological Statistics</i> , 2013, 20, 129-146.	3.5	4
46	Definition, capabilities and components of a terrestrial carbon monitoring system. <i>Carbon Management</i> , 2013, 4, 413-422.	2.4	8
47	Management swing potential for bioenergy crops. <i>GCB Bioenergy</i> , 2013, 5, 623-638.	5.6	94
48	Advancing national greenhouse gas inventories for agriculture in developing countries: improving activity data, emission factors and software technology. <i>Environmental Research Letters</i> , 2013, 8, 015030.	5.2	34
49	Methods for the quantification of GHG emissions at the landscape level for developing countries in smallholder contexts. <i>Environmental Research Letters</i> , 2013, 8, 015019.	5.2	22
50	COMET2.0 Decision Support System for Agricultural Greenhouse Gas Accounting. , 2012, , 251-270.		3
51	Improving regional soil carbon inventories: Combining the IPCC carbon inventory method with regression kriging. <i>Geoderma</i> , 2012, 189-190, 288-295.	5.1	53
52	Soil carbon sequestration and associated economic costs for farming systems of the Indo-Gangetic Plain: A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2012, 146, 137-146.	5.3	51
53	No-till management impacts on crop productivity, carbon input and soil carbon sequestration. <i>Agriculture, Ecosystems and Environment</i> , 2012, 149, 37-49.	5.3	226
54	Towards an integrated global framework to assess the impacts of land use and management change on soil carbon: current capability and future vision. <i>Global Change Biology</i> , 2012, 18, 2089-2101.	9.5	150

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55	Influence of soil C, N <sub>2</sub> O and fuel use on GHG mitigation with no-till adoption. <i>Climatic Change</i> , 2012, 111, 609-625.	3.6	11
56	Measuring and monitoring soil organic carbon stocks in agricultural lands for climate mitigation. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 169-173.	4.0	135
57	Regional uptake and release of crop carbon in the United States. <i>Biogeosciences</i> , 2011, 8, 2037-2046.	3.3	35
58	Designing a national soil carbon monitoring network to support climate change policy: a case example for US agricultural lands. <i>Greenhouse Gas Measurement and Management</i> , 2011, 1, 167-178.	0.6	31
59	Knowledge gaps in soil carbon and nitrogen interactions – From molecular to global scale. <i>Soil Biology and Biochemistry</i> , 2011, 43, 702-717.	8.8	195
60	Assessing the potential for greenhouse gas mitigation in intensively managed annual cropping systems at the regional scale. <i>Agriculture, Ecosystems and Environment</i> , 2011, 144, 150-158.	5.3	39
61	How can soil monitoring networks be used to improve predictions of organic carbon pool dynamics and CO <sub>2</sub> fluxes in agricultural soils?. <i>Plant and Soil</i> , 2011, 338, 247-259.	3.7	61
62	Soil carbon sequestration rates and associated economic costs for farming systems of south-eastern Australia. <i>Soil Research</i> , 2010, 48, 720.	1.1	29
63	Changes in soil organic carbon storage under different agricultural management systems in the Southwest Amazon Region of Brazil. <i>Soil and Tillage Research</i> , 2010, 106, 177-184.	5.6	103
64	<sup>15</sup> N isotopic crop residue cycling studies and modeling suggest that IPCC methodologies to assess residue contributions to N <sub>2</sub> O-N emissions should be reevaluated. <i>Nutrient Cycling in Agroecosystems</i> , 2010, 86, 383-390.	2.2	49
65	Scale and uncertainty in modeled soil organic carbon stock changes for US croplands using a process-based model. <i>Global Change Biology</i> , 2010, 16, 810-822.	9.5	196
66	Soil organic carbon stock change due to land use activity along the agricultural frontier of the southwestern Amazon, Brazil, between 1970 and 2002. <i>Global Change Biology</i> , 2010, 16, 2775-2788.	9.5	45
67	Quantification and Decision Support Tools for US Agricultural Soil Carbon Sequestration. <i>ICP Series on Climate Change Impacts, Adaptation, and Mitigation</i> , 2010, , 307-341.	0.4	2
68	Predicting Enhanced Vegetation Index (EVI) curves for ecosystem modeling applications. <i>Remote Sensing of Environment</i> , 2009, 113, 2186-2193.	11.0	46
69	Effect of grassland management on soil carbon sequestration in Rondônia and Mato Grosso states, Brazil. <i>Geoderma</i> , 2009, 149, 84-91.	5.1	137
70	Estimating Agricultural Nitrous Oxide Emissions. <i>Eos</i> , 2008, 89, 529-529.	0.1	91
71	Greenhouse gas mitigation in agriculture. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2008, 363, 789-813.	4.0	1,739
72	Residue Carbon Stabilization in Soil Aggregates of No-Till and Tillage Management of Dryland Cropping Systems. <i>Soil Science Society of America Journal</i> , 2008, 72, 507-513.	2.2	54

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73	Yearly Extraction of Central America's Land Cover for Carbon Flux Monitoring. <i>GIScience and Remote Sensing</i> , 2007, 44, 334-355.	5.9	3
74	Semiparametric Mixed Models for Increment-Averaged Data With Application to Carbon Sequestration in Agricultural Soils. <i>Journal of the American Statistical Association</i> , 2007, 102, 803-812.	3.1	6
75	An empirically based approach for estimating uncertainty associated with modelling carbon sequestration in soils. <i>Ecological Modelling</i> , 2007, 205, 453-463.	2.5	69
76	Policy and technological constraints to implementation of greenhouse gas mitigation options in agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2007, 118, 6-28.	5.3	459
77	Bias and variance in model results associated with spatial scaling of measurements for parameterization in regional assessments. <i>Global Change Biology</i> , 2006, 12, 516-523.	9.5	31
78	Soil organic carbon as an indicator of environmental quality at the national scale: Inventory monitoring methods and policy relevance. <i>Canadian Journal of Soil Science</i> , 2005, 85, 531-540.	1.2	37
79	Agricultural management impacts on soil organic carbon storage under moist and dry climatic conditions of temperate and tropical regions. <i>Biogeochemistry</i> , 2005, 72, 87-121.	3.5	538
80	The potential to mitigate global warming with no-tillage management is only realized when practised in the long term. <i>Global Change Biology</i> , 2004, 10, 155-160.	9.5	658
81	Modeling the Impact of Exotic Annual Brome Grasses on soil Organic Carbon Storage in a Northern Mixed-Grass Prairie. <i>Biological Invasions</i> , 2004, 6, 365-377.	2.4	26
82	Deriving Grassland Management Factors for a Carbon Accounting Method Developed by the Intergovernmental Panel on Climate Change. <i>Environmental Management</i> , 2004, 33, 474-84.	2.7	70
83	Uncertainty in estimating land use and management impacts on soil organic carbon storage for US agricultural lands between 1982 and 1997. <i>Global Change Biology</i> , 2003, 9, 1521-1542.	9.5	175
84	Impacts of Exotic Annual Brome Grasses ( <i>Bromus</i> spp.) on Ecosystem Properties of Northern Mixed Grass Prairie. <i>American Midland Naturalist</i> , 2003, 149, 46-58.	0.4	66
85	A Phytosociological Study of Exotic Annual Brome Grasses in a Mixed Grass Prairie/Ponderosa Pine Forest Ecotone. <i>American Midland Naturalist</i> , 2002, 147, 25-31.	0.4	7
86	Soil organic matter, biota and aggregation in temperate and tropical soils - Effects of no-tillage. <i>Agronomy for Sustainable Development</i> , 2002, 22, 755-775.	0.8	980
87	RAINFALL EFFECTS ON PLANT-HERBIVORE PROCESSES IN AN UPLAND OAK FOREST. <i>Ecology</i> , 1998, 79, 604-617.	3.2	37
88	Regionalizing crop types to enhance global ecosystem modelling of maize production. <i>Environmental Research Letters</i> , 0, , .	5.2	0